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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 09/654,688 Confirmation No. 8203  
Applicant : Olsen, et al.  
Filed : September 05, 2000  
TC/A.U. : 1653  
Examiner : Karen Carlson  
Docket No. : 1789-01007  
Customer No.:  
For: Hemoglobin Mutants That Reduce Heme Loss

RESPONSE TO OFFICE ACTION  
DATED OCTOBER 2, 2003

Atty. Dkt. No.: 1789-01007  
Date: April 1, 2004

Commissioner for Patents  
Washington, D. C. 20231

Sir:

In response to the Office Action dated October 3, 2003, please amend the above-identified application as follows:

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 4 of this paper.